

Appl. No.: 10/632,359

Reply to Office Action of: 02/24/2005

Amendments to the Specification:

Please delete the title and insert the following new title:

Motion Encoder

Please delete the paragraph(s) starting on page 4, lines 21-22 and replace with the following replacement paragraph(s):

Figure 4 shows a side view of the rotary dial in an embodiment where movement along an axis longitudinal to the axis of rotation is permissible;

Figure 5 is a side view an alternate embodiment where the detector is located for rotation with the rotatable member; and

Figure 6 is a side view an alternate embodiment where the source is located for rotation with the rotatable member.

Please delete the paragraph(s) starting on page 6, lines 6-13 and replace with the following replacement paragraph(s):

The infrared module 22 includes the transmitting 25 and receiving portion 23 in a single package. This arrangement allows a single module solution to be used when using reflective surfaces to direct the infrared beam back towards the source; as illustrated in Figures 1-3, embodiments which do not use reflective surfaces, for example polarised surfaces, the transmitter and receiver modules may be placed at different positions on a PCB or on the same axis so as to permit line of sight

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reception. The receiving or transmitting module may also be placed on the rotating surface. Thus, the detector could be located for rotation with the rotatable member. An example of this is shown in Fig. 5 with detector 23 located for rotation with the rotatable member 4. Alternatively, as exemplified by Fig. 6, the source 25 could be located for rotation with the rotatable member 4.